

MAY 28, 2002

PTAS

GRAY CARY WARE & FREIDENRICH LLP LISA A. HAILE, J.D. PH.D. 4365 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO, CA 92121

Chief Information Officer Washington, DC 20231 www.uspto.gov



102040769A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/13/2002

REEL/FRAME: 012734/0741

NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SHORT, JAY

DOC DATE: 12/20/2001

ASSIGNOR:

MURPHY, DENNIS

DOC DATE: 12/17/2001

ASSIGNOR:

REID, JOHN

DOC DATE: 12/18/2001

ASSIGNOR:

MATHUR, ERIC J.

DOC DATE: 12/20/2001

ASSIGNEE:

DIVERSA CORPORATION 4955 DIRECTORS PLACE SAN DIEGO, CALIFORNIA 92121

SERIAL NUMBER: 09886400

PATENT NUMBER:

FILING DATE: 06/20/2001

ISSUE DATE:

012734/0741 PAGE 2

KIMBERLY WHITE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

04-03-200	02
OFTIN PTO 1595 DEL 2 3 7002	Docket No.: DIVER1120-4
o the Honorable Communication Fatents and Trademarks Hiease rec	69 ecord the attached original documents or copy thereof.
o the Honorable Community Patents and 19: 55	2. Name and address of receiving Party(ies)
a) Jay Short b) Dennis Murphy c) John Reid d) Eric J. Mathur	Name: <u>DIVERSA CORPORATION</u> Internal Address:
. ,	Street Address: 4955 DIRECTORS PLACE
Additional name(s) of conveying party(ies) attached? Yes _X_ No	City: SAN DIEGO State: CA Zip: 92121
3. Nature of conveyance: X Assignment Merger Security Agreement Change of name Other	Additional name(s) & address(es) attached? YesX_ No
Execution Dates: a) December 20, 2001; b) December 17, 2001; c) December 18, 2001; e) December 20, 2001 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the A. Patent Application No.(s) 09/886,400	ne execution date of the application is: B. Patent No.(s)
Additional numbers attach	hed? Yes X No
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Lisa A. Haile, J.D., Ph.D. GRAY CARY WARE & FREIDENRICH LLP Street Address: 4365 Executive Drive, Suite 1100	6. Total number of Applications and patents involved: _1 7. Total fee (37 CFR 3.41) \$40.00 X Enclosed - Check No.: 500714 X Authorized to charge any underpayment to deposit account. 8. X Deposit Account No.: 50-1355
City: San Diego State: CA Zip: 92121	0
City: San Diego	T USE THIS SPACE

ASSIGNMENT (BY INVENTOR(S))

This assignment ("Assignment") is made by Jay Short, of Rancho Santa Fe California, Dennis Murphy, of Malvern, Pennsylvania, John Reid, of Ardmore, Pennsylvania and Eric Mathur, of Carlsbad, California (collectively, the "Assignors") to DIVERSA CORPORATION, a Delaware corporation ("Assignee"), having a place of business at 4955 Directors Place; San Diego, California 92121.

Recitals

- A. Each of the Assignors has invented a new and useful invention entitled ENZYMES HAVING ALPHA-GALACTOSIDASE ACTIVITY AND METHODS OF USE THEREOF for which an application for United States Letters Patent was filed on JUNE 20, 2001 in the United States Patent and Trademark Office.
- B. Each of the Assignors authorizes and requests insertion of the serial number of the application when officially known:

The United States Application Serial No. 09/886,400.

- C. Each of the Assignors believes the Assignors to be the original, first and joint inventors of the invention disclosed and/or claimed in the application for Letters Patent.
- D. The parties desire to have a recordable instrument assigning from the Assignors to the Assignee the entire rights, title and interest in and to the invention, the application and all Letters Patent in the United States and throughout the world that may be granted or issued for the invention or that derive a right of priority from the application (including, without limitation, all divisional, continuation, continuation-in-part and continued prosecution applications thereof, and all reissues and reexaminations thereof, and all foreign counterparts thereof) (collectively, the "Invention Patents").

Agreement

NOW, THEREFORE, in accordance with the obligations to assign the Invention Patents and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each of the Assignors agrees to the foregoing and as follows:

- 1. Each of the Assignors does and will sell, assign and transfer to Assignee, such Assignor's entire rights, title, and interest in and to each of the Invention Patents, including, without limitation, the rights to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.
- Each of the Assignors agrees that, upon request and without further 2. compensation, but at no expense to such Assignor, such Assignor and such Assignor's legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing each of the Invention Patents in the United States and throughout the world, and for perfecting, recording, or maintaining the title of Assignee, and Assignee's successors and assigns, in and to each of the Invention Patents in the United States and throughout the world. In the event that Assignee is unable for any reason to secure any of the Assignors' signatures to any document that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing each of the Invention Patents in the United States and throughout the world, or for perfecting, recording, or maintaining the title of Assignee, and Assignee's successors and assigns, in and to each of the Invention Patents in the United States and throughout the world, each such Assignor hereby irrevocably designates and appoints Assignee and Assignee's duly authorized officers and agents as such Assignor's agents and attorneys-in-fact to act for and on such Assignor's behalf and instead of such Assignor to execute such document, all with the same legal force and effect as if executed by such Assignor.

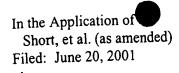
3. Each of the Assignors represents and warrants that such Assignor has not granted and will not grant to others either (1) any rights, title or interest in and to any of the Invention Patents, or (2) any rights inconsistent with the rights granted herein.

- 4. Each of the Assignors authorizes and requests the Assistant Commissioner for Patents of the United States and the various counterparts thereof throughout the world to issue and/or grant any Letters Patent granted for each of the Invention Patents to Assignee, its successors and assigns, as the assignee of the entire interest in such Invention Patents.
- This Assignment constitutes the entire agreement with respect to its 5. subject matter and supersedes all prior or contemporaneous oral or written agreements concerning such subject matter. No waiver, amendment, or modification of this Agreement shall be effective against the Assignee, unless in writing executed by a duly authorized representative of the Assignee. This Agreement shall be governed in all respects by the laws of the United States of America and by the laws of the state/province of California, as such laws are applied to agreements entered into and to be performed entirely within California between California residents. Each of the parties irrevocably consents to the exclusive personal jurisdiction of the federal and state courts located in California, as applicable, for any matter arising out of or relating to this Assignment, except that in any action seeking to enforce any order or any judgment of such federal or state courts located in California, such personal jurisdiction shall be nonexclusive. A breach of any of the promises or agreements contained herein will result in irreparable and continuing damage to Assignee for which there will be no adequate remedy at law, and Assignee shall e entitled to injunctive relief and/or a decree of specific performance, and such other relief as may be proper.

In the Application of
Short, et al. (as amended)
Filed: June 20, 2001

IN WITNESS WHEREOF, each of the Assignors has executed this Assignment on the date(s) provided below.

1. Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Assignor: Jay M. Short Signature: 7
2. Date:	Assignor: Dennis Murphy Signature:
3. Date:	Assignor: John Reid Signature:
Date: $\frac{2}{2}/20/01$	Assignor: Eric J. Mathur Signature:



IN WITNESS WHEREOF, each of the Assignors has executed this Assignment on the date(s) provided below.

1.	Assignor: Jay M. Short
Date:	Signature:
2.	Assignor: Demnis Murphy
Date: <u>fee 17, 2001</u>	Signature:
3.	Assignor: John Reid
Date:	Signature:
4.	Assignor: Eric J. Mathur
Date:	Signature:

In the Application of
Short, et al. (as amended)
Filed: June 20, 2001

IN WITNESS WHEREOF, each of the Assignors has executed this Assignment on the date(s) provided below.

1.	Assignor: Jay M. Short
Date:	Signature:
2.	Assignor: Dennis Murphy
Date:	Signature:
3.	Assignor: John Reid
Date: Dec. 18, 2001	Signature: John Rud
	Frie I Mothur
4.	Assignor: Eric J. Mathur
Date:	Signature: